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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 1 of 14

Complete If Known

Application Number	10/773,916
Filing Date	February 6, 2004
First Named Inventor	Gjalt W. Hulsman
Group Art Unit	1652
Examiner Name	Charles L. Patterson, Jr.
Attorney Docket Number	MBX 017 CON (2)

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	4,430,430			Momose, et al.	02-07-1989	
	4,876,331			Doi	10-24-1989	
	5,245,023			Peoples, et al.	09-14-1993	
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	5,378,616			Tujimoto, et al.	01-03-1995	
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	5,663,063			People, et al.	09-02-1997	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Office ³	Number ³	Kind Code ³ (if known)				
	CA 2,006,508				Xerox	03-26-1996		
	WO 91/00917				Mass. Inst. Tech.	01-24-1991		
	WO 92/19747				Imperial Chem. Ind. PLC	11-12-1992		
	WO 93/02187				Michigan State Univ.	07-13-1992		
	WO 93/02194				Imperial Chem. Ind. PLC	07-15-1992		
	WO 93/06225				Ctr. Innovative Technology	04-01-1993		
	WO 94/11519				Zeneca Limited	05-28-1994		
	WO 94/12014				Agraceius, Inc.	06-09-1994		
	WO 95/20614				Procter & Gamble	11-15-1994		
	WO 95/20615				Procter & Gamble	08-03-1995		
	WO 96/20621				FACO	07-11-1996		

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Group Art Unit	1652		
Examiner Name	Charles L. Patterson, Jr.		
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OTHER ART - NON PATENT LITERATURE DOCUMENTS		
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
		ABE, et al., "Biosynthesis from gluconate of a random copolyester consisting of 3-hydroxybutyrate and medium-chain-length 3-hydroxyalkanoates by <i>Pseudomonas</i> sp. 61-3.," <i>Int. J. Biol. Macromol.</i> 16:115-119 (1994).
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		ALLEN, et al., "DNA sequence of the <i>putA</i> gene from <i>Salmonella typhimurium</i> : a bifunctional membrane-associated dehydrogenase that binds DNA," <i>Nucleic Acids Res.</i> 21:1676 (1993).
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Filing Date	February 6, 2004		
First Named Inventor	Gjalt W. Huisman		
Group Art Unit	1652		
Examiner Name	Charles L. Patterson, Jr.		
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		Attorney Docket Number	MBX 017 CON (2)

OTHER ART - NON PATENT LITERATURE DOCUMENTS

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		BENACHENHOU-LAHFA, et al., "PCR-mediated cloning and sequencing of the gene encoding glutamate dehydrogenase from the archaeon Sulfolobus shibatae: Identification of putative amino-acid signatures for extremophilic adaptation," <i>Gene</i> 140: 17-24 (1994).	
		BLATTNER, et al., "The complete genome sequence of <i>Escherichia coli</i> K-12," <i>Science</i> 277:1453 (1997).	
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		CHU, et al., "Enzymatically active truncated cat brain glutamate decarboxylase: expression, purification, and absorption spectrum," <i>Arch. Biochem. Biophys.</i> 313:287-295 (1994).	
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		DOI, et al., "Nuclear Magnetic Resonance Studies on Unusual Bacterial Copolymers of 3-Hydroxybutyrate and 4-Hydroxybutyrate," <i>Macromolecules</i> 21:2722-2727 (1988).	
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		GASSER & FRALEY, "Genetically Engineering Plants for Crop Improvement," <i>Science</i> 244:1293-1299 (1989).	
		GERNGROSS, et al., "Enzyme-catalyzed synthesis of poly[(R)-(-)-3-hydroxybutyrate]: formation of macroscopic granules in vitro," <i>Proc. Natl. Acad. Sci. USA</i> 92:6279 (1995).	
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		GONZALES, et al., "Cloning of a yeast gene coding for the glutamate synthase small subunit (GUS2) by complementation of <i>Saccharomyces cerevisiae</i> and <i>Escherichia coli</i> glutamate auxotrophs," <i>Mol. Microbiol.</i> 6:301-308 (1992).	
		GREGERSON, et al., "Molecular characterization of NADH-dependent glutamate synthase from alfalfa nodules," <i>Plant Cell</i> 5:215 (1993).	
		HEIN, et al., "Biosynthesis of poly(4-hydroxybutyric acid) by recombinant strains of <i>Escherichia coli</i> ," <i>FEMS Microbiol. Lett.</i> 153:411-418 (1997).	
		HERRERO, et al., "Transposon vectors containing non-antibiotic resistance selection markers for cloning and stable chromosomal insertion of foreign genes in gram-negative bacteria," <i>J. Bacteriol.</i> 172:6557-6567 (1990).	
		HIRAMITSU, et al., "Production of Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) by <i>Acaligenes Latus</i> ," <i>Biotechnol. Lett.</i> 15:481 (1993).	
		JESUDASON & MARCHESSAULT, "Synthetic Poly[(R,S)-3-hydroxyalkanoates] with Butyl and Hexyl Side Chains," <i>Macromolecules</i> 27:2595-2602 (1994).	
		JIMENEZ-ZURDO, et al., "The <i>Rhizobium meliloti</i> putA gene: Its role in the establishment of the symbiotic interaction with alfalfa," <i>Mol. Microbiol.</i> 23:85 (1997).	
		JOHNSTON, et al., "Complete nucleotide sequence of <i>Saccharomyces cerevisiae</i> chromosome VIII," <i>Science</i> 265:2077 (1994).	
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		KATO, et al., "Open reading frame 3 of the barotolerant bacterium strain DSS12 is complementary with cydD in <i>Escherichia coli</i> : cydD functions are required for cell stability at high pressure," <i>J. Biochem.</i> 120:301 (1996).	

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		KATO, et al., "Production of a novel copolyester of 3-hydroxybutyric acid with a medium-chain-length 3-hydroxyalkanoic acids by <i>Pseudomonas</i> sp. 61-3 from sugars," <i>Appl. Microbiol. Biotechnol.</i> 45:363-70 (1996).	
		KEUNTJE, et al., "Expression of the <i>putA</i> gene encoding proline dehydrogenase from <i>Rhodobacter capsulatus</i> is independent of <i>NtrC</i> regulation but requires an <i>Lrp</i> -like activator protein," <i>J. Bacteriol.</i> 177:6432 (1995).	
		KIMURA, et al., "Production of Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) by <i>Pseudomonas Acidovorans</i> ," <i>Biotechnol. Lett.</i> 14:445 (1992).	
		KINNAIRD, et al., "The complete nucleotide sequence of the <i>Neurospora crassa</i> am (NADP-specific glutamate dehydrogenase) gene," <i>Gene</i> 28:253-280 (1983).	
		KIRBY, et al., "Purification and properties of rabbit brain and liver 4-aminobutyrate aminotransferases isolated by monoclonal-antibody immunoabsorbent chromatography," <i>Biochem. J.</i> 230:481-488 (1986).	
		KLENK, et al., "The complete genome sequence of the hyperthermophilic, sulphate-reducing archaeon <i>Archaeoglobus fulgidus</i> ," <i>Nature</i> 390:364 (1997).	
		KUNIOKA, et al., "New bacterial copolymers produced in <i>Alcaligenes eutrophus</i> from organic acids," <i>Polym. Commun.</i> 29:174 (1988).	
		KWON, et al., "Brain 4-aminobutyrate aminotransferase. Isolation and sequence of a cDNA encoding the enzyme," <i>J. Biol. Chem.</i> 267:7215-7216 (1992).	
		LAGEVEEN, et al., "Formation of Polyesters by <i>Pseudomonas oleovorans</i> : Effect of Substrates on Formation and Composition of Poly-(R)-3-Hydroxyalkanoates and Poly-(R)-3-Hydroxyalkenoates," <i>Appl. Environ. Microbiol.</i> 54:2924-2932 (1988).	
		LEE, et al., "Biosynthesis of copolymers consisting of 3-hydroxybutyric acid and medium-chain-length 3-hydroxyalkanoic acids from 1,3-butanediol or from 3-hydroxybutyrate by <i>Pseudomonas</i> sp. A33," <i>Appl. Microbiol. Biotechnol.</i> 42: 901-909 (1995).	

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Use as many sheets as necessary)</small>		Application Number	10/773,916
Sheet	8	of	14
		Filing Date	February 6, 2004
		First Named Inventor	Gjalt W. Huisman
		Group Art Unit	1652
		Examiner Name	Charles L. Patterson, Jr.
		Attorney Docket Number	MBX 017 CON (2)

OTHER ART - NON PATENT LITERATURE DOCUMENTS		
Examiner's Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
		LEE, et al., "Enhanced biosynthesis of P(3HB-3HV) and P(3HB-4HB) by amplification of the cloned PHB biosynthesis genes in <i>Alcaligenes eutrophus</i> ," <i>Biotechnol. Lett.</i> 19: 771-774 (1997).
		LEMOIGNE & ROUKHELMAN, "Fermentation β -Hydroxybutyrique," <i>Annales des Fermentations</i> 5: 527-536 (1925).
		LIN, et al., "Regulatory region with putA gene of proline dehydrogenase that links to the lux and the lux operons in <i>Photobacterium leiognathi</i> ," <i>Biochem. Biophys. Res. Commun.</i> 219:868 (1996).
		MANDAL & GHOSH, "Isolation of a glutamate synthase (GOGAT)-negative, pleiotropically N utilization-defective mutant of <i>Azospirillum brasilense</i> : cloning and partial characterization of GOGAT structural gene," <i>J. Bacteriol.</i> 175:8024 (1993).
		MAT-JAN, et al., "Anaerobic growth defects resulting from gene fusions affecting succinyl-CoA synthetase in <i>Escherichia coli</i> K12," <i>Mol. Gen. Genet.</i> 216:276-280 (1989).
		MCBRIDE, et al., "Controlled expression of plastid transgenes in plants based on a nuclear DNA-encoded and plastid-targeted T7 RNA polymerase," <i>Proc. Natl. Acad. Sci. USA</i> . 91:7301-7305 (1994).
		MCFALL & NEWMAN, "Amino Acids as Carbon Sources," in <i>Escherichia coli and Salmonella</i> , (Neidhardt, ed.), pp. 358-379, ASM Press: Washington, D.C., 1996.
		MCLAGGAN, et al., "Interdependence of K ⁺ and glutamate accumulation during osmotic adaptation of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 269:1911 (1994).
		MEASURES, "Role of amino acids in osmoregulation of non-halophilic bacteria," <i>Nature</i> 257:398 (1975).
		METZER AND HALPERN, "In vivo cloning and characterization of the gabCTDP gene cluster of <i>Escherichia coli</i> K-12," <i>J. Bacteriol.</i> 172: 3250-3256 (1990).

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
Application Number	10/773,816		
Filing Date	February 6, 2004		
First Named Inventor	Gjalt W. Huisman		
Group Art Unit	1652		
Examiner Name	Charles L. Patterson, Jr.		
Sheet	9	of	14
Attorney Docket Number	MBX 017 CON (2)		

OTHER ART -- NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		MILLER, et al., "Cloning and characterization of gdhA, the structural gene for glutamate dehydrogenase of <i>Salmonella typhimurium</i> ," <i>J. Bacteriol.</i> 157:171-178 (1984).	
		MIYAMOTO, et al., "Possible physiological roles of aspartase, NAD- and NADP-requiring glutamate dehydrogenases of <i>Pseudomonas fluorescens</i> ," <i>J. Biochem.</i> 112:52-58 (1992).	
		MOORE & BOYLE, "Nucleotide sequence and analysis of the spaA gene encoding biosynthetic arginine decarboxylase in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 172:4631 (1990).	
		MORRISSEY, et al., "Partial cloning and characterization of an arginine decarboxylase in the kidney," <i>Kidney Int.</i> 47:1458 (1995).	
		MOUNTAIN, et al., "The <i>Klebsiella aerogenes</i> glutamate dehydrogenase (gdhA) gene: cloning, high-level expression and hybrid enzyme formation in <i>Escherichia coli</i> ," <i>Mol. Gen. Genet.</i> 199:141-145 (1985).	
		NAGASU, et al., "Nucleotide Sequence of the GDH gene coding for the NADP-specific glutamate dehydrogenase of <i>Saccharomyces cerevisiae</i> ," <i>Gene</i> 37:247-259 (1984).	
		NAKAMURA, et al., "Cloning and sequencing of novel genes from <i>Vibrio alginolyticus</i> that support the growth of K ⁺ uptake-deficient mutant of <i>Escherichia coli</i> ," <i>Biochim. Biophys. Acta</i> 1277:201 (1996).	
		NAM, et al., "Differential expression of ADC mRNA during development and upon acid stress in soybean (Glycine max) hypocotyls," <i>Plant Cell Physiol.</i> 38:1156 (1997).	
		OLIVER, et al., "Determination of the nucleotide sequence for the glutamate synthase structural genes of <i>Escherichia coli</i> K-12," <i>Gene</i> 60:1 (1987).	
		OWEN & PEN, eds., <i>Transgenic Plants: A Production System for Industrial and Pharmaceutical Proteins</i> John Wiley & Sons Ltd: England, 1996.	

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Sheet	10	of	14
		Attorney Docket Number	MBX 017 CON (2)

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		PARK, et al., "Isolation and characterization of recombinant mitochondrial 4-aminobutyrate aminotransferase," <i>J. Biol. Chem.</i> 268: 7636-7639 (1993).
		PELANDA, et al., "Glutamate synthase genes of the diazotroph <i>Azospirillum brasilense</i> . Cloning, sequencing, and analysis of functional domains," <i>J. Biol. Chem.</i> 268:3099 (1993).
		PÉREZ-AMADOR, et al., "Expression of arginine decarboxylase is induced during early fruit development and in young tissues of <i>Pisum sativum</i> (L)," <i>Plant Mol. Biol.</i> 28:997 (1995).
		PERLAK, et al., "Modification of the coding sequence enhances plant expression of insect control protein genes," <i>Proc. Natl. Acad. Sci. USA</i> 88: 3324 (1991).
		PETIT, et al., "PcrA is an essential DNA helicase of <i>Bacillus subtilis</i> fulfilling functions both in repair and rolling-circle replication," <i>Mol. Microbiol.</i> 29:261 (1998).
		POIRIER et al., "Polyhydroxybutyrate, a Biodegradable Thermoplastic Produced in Transgenic Plants," <i>Science</i> 266:520-523 (1992).
		PRESECAN, et al., "The <i>Bacillus subtilis</i> genome from gerBC (311 degrees) to licR (334 degrees)," <i>Microbiology</i> 143:3313 (1997).
		RASTOGI, et al., "Cloning of tomato (<i>Lycopersicon esculentum</i> Mill.) arginine decarboxylase gene and its expression during fruit ripening," <i>Plant Physiol.</i> 103:829 (1993).
		REDENBACH, et al., "A set of ordered cosmid and a detailed genetic and physical map for the 8 Mb <i>Streptomyces coelicolor</i> A3(2) chromosome," <i>Mol. Microbiol.</i> 21:77 (1996).
		REITZER, "Ammonia Assimilation and the Biosynthesis of Glutamine, Glutamate, Aspartate, Asparagine, L-Alanine, and D-Alanine," in <i>Escherichia coli and Salmonella</i> , (Neidhardt, ed.), pp. 991-407, ASM Press: Washington, D.C., 1996.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/773,916
Sheet	11	of	14
Filing Date	February 6, 2004		
First Named Inventor	Gjalt W. Hulsman		
Group Art Unit	1652		
Examiner Name	Charles L. Patterson, Jr.		
	Attorney Docket Number	MBX 017 CON (2)	

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		SAITO & DOI, "Microbial synthesis and properties of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) in <i>Comamonas acidovorans</i> ," <i>Int. J. Biol. Macromol.</i> 16:18 (1994).	
		SAITO, et al., "Microbial Synthesis and properties of Poly(3-hydroxybutyrate-co-4-hydroxybutyrate)," <i>Polym. Int.</i> 39:169 (1996).	
		SAKAKIBARA, et al., "Isolation and characterization of a cDNA that encodes maize glutamate dehydrogenase," <i>Plant Cell Physiol.</i> 36:789-797 (1995).	
		SAVIOZ, et al., "Comparison of proC and other housekeeping genes of <i>Pseudomonas aeruginosa</i> with their counterparts in <i>Escherichia coli</i> ," <i>Gene</i> 86:107 (1990).	
		SCHAAP, et al., "The <i>Agaricus bisporus</i> pruA gene encodes a cytosolic delta 1-pyrroline-5-carboxylate dehydrogenase which is expressed in fruit bodies but not in gill tissue," <i>Appl. Environ. Microbiol.</i> 63:57 (1997).	
		SCHERF, et al., "Purification and properties of 4-hydroxybutyrate coenzyme A transferase from <i>Clostridium aminobutyricum</i> ," <i>Appl. Environ. Microbiol.</i> 57:2699-2701 (1991).	
		SCHERF, et al., "Succinate-ethanol fermentation in <i>Clostridium kluveri</i> : purification and characterisation of 4-hydroxybutyryl-CoA dehydratase/vinylacetyl-CoA delta 3-delta 2-isomerase," <i>Arch. Microbiol.</i> 161: 239-245 (1994).	
		SCHLEYER, et al., "Transient, specific and extremely rapid release of osmolytes from growing cells of <i>Escherichia coli</i> K-12 exposed to hypoosmotic shock," <i>Arch. Microbiol.</i> 160:424 (1993).	
		SHAIKE, et al., "Control of Utilization of L-Arginine, L-Ornithine, Agmatine, and Putrescine as Nitrogen Sources in <i>Escherichia coli</i> K-12," <i>J. Bacteriol.</i> 163:938 (1995).	
		SMITH, et al., "Complete genome sequence of <i>Methanobacterium thermoautotrophicum</i> deltaH: functional analysis and comparative genomics," <i>J. Bacteriol.</i> 179:7135 (1997).	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(use as many sheets as necessary)</small>		Application Number	10/773,916
Sheet	12	of	14
		Attorney Docket Number	MBX 017 CON (2)

OTHER ART - NON PATENT LITERATURE DOCUMENTS		
Examiner's Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
		SNEDECOR, et al., "Selection, expression, and nucleotide sequencing of the glutamate dehydrogenase gene of <i>Peptostreptococcus asaccharolyticus</i> ," <i>J. Bacteriol.</i> 173:6162-6167 (1991).
		SÖHLING & GOTTSCHALK, "Molecular analysis of the anaerobic succinate degradation pathway in <i>Clostridium kluyveri</i> ," <i>J. Bacteriol.</i> 178:871-880 (1996).
		SÖHLING & GOTTSCHALK, "Purification and characterization of a coenzyme-A-dependent succinate-semialdehyde dehydrogenase from <i>Clostridium kluyveri</i> ," <i>Eur. J. Biochem.</i> 212: 121-127 (1993).
		SOKHANSANDZH, et al., "Transfer of bacterial genes for proline synthesis in plants and their expression by various plant promoters," <i>Genetika</i> 33:906 (1997).
		STEINBUCHEL and VALENTIN, "Diversity of bacterial polyhydroxyalkanoic acids," <i>FEMS Microbiol. Lett.</i> 128:219-28 (1995).
		STEINBUCHEL and WIESE, et al., "A <i>Pseudomonas</i> strain accumulating polyesters of 3-hydroxybutyric acid and medium-chain-length 3-hydroxyalkanoic acids," <i>Appl. Microbiol. Biotechnol.</i> 37:891-97 (1992).
		STIM & BENNETT, "Nucleotide sequence of the <i>adi</i> gene, which encodes the biodegradative acid-induced arginine decarboxylase of <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 175:1221 (1993).
		STRAUB, et al., "Isolation, DNA sequence analysis, and mutagenesis of a proline dehydrogenase gene (<i>putA</i>) from <i>Bradyrhizobium japonicum</i> ," <i>Appl. Environ. Microbiol.</i> 62:221 (1996).
		SVAB, et al., "Stable transformation of plastids in higher plants," <i>Proc. Natl. Acad. Sci. USA</i> 87: 8526-8530 (1990).
		SYNTICHIKI, et al., "The amino-acid sequence similarity of plant glutamate dehydrogenase to the extremophilic archaeal enzyme conforms to its stress-related function," <i>Gene</i> 168: 87-92 (1996).

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Application Number **10/773,916**Filing Date **February 6, 2004**First Named Inventor **Gjalt W. Huisman**Group Art Unit **1652**Examiner Name **Charles L. Patterson, Jr.**Attorney Docket Number **MBX 017 CON (2)**

Sheet

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of

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		SZUMANSKI & BOYLE, "Analysis and sequence of the speB gene encoding agmatine ureohydrolase, a putrescine biosynthetic enzyme in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 172:538, (1990).	
		TELLER, et al., "The glutamate dehydrogenase gene of <i>Clostridium symbiosum</i> . Cloning by polymerase chain reaction, sequence analysis and over-expression in <i>Escherichia coli</i> ," <i>Eur. J. Biochem.</i> 208:151-159 (1992).	
		THAKUR, et al., "Changes in the Electroencephalographic and γ -Aminobutyric Acid Transaminase and Succinic Semialdehyde Dehydrogenase in the Allergen Induced Rat Brain," <i>Biochem. Int.</i> 16:235-243 (1998).	
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OTHER ART – NON PATENT LITERATURE DOCUMENTS		
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		VALLE, et al., "Complete nucleotide sequence of the glutamate dehydrogenase gene from <i>Escherichia coli</i> K-12," <i>Gene</i> 27:193-199 (1984).
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